



DEPARTMENT OF THE ARMY
SAN FRANCISCO DISTRICT, U.S. ARMY CORPS OF ENGINEERS
1455 MARKET STREET
SAN FRANCISCO, CALIFORNIA 94103-1398

OCT 29 2015

Operations and Readiness Division

SUBJECT: File Number 2015-00058S, Port of Redwood City Berths 1 – 4 Maintenance Dredging – Episode 1; Dredge Operation Plan; DMMO Serial Number: 15-099

Mr. Don Snaman
Port of Redwood City
675 Seaport Boulevard
Redwood City, California 94063

Dear Mr. Snaman:

This refers to your submittal of October 26, 2015 requesting approval of your dredge operation plan (DOP) for maintenance dredging of approximately 45,708 cubic yards of sediment to a design depth of -34 feet mean lower low water (MLLW), plus an overdepth allowance of 1 foot at Berths 1 – 4 at the Port of Redwood City. Of the total dredging volume, no more than twenty percent or approximately 9,142 cubic yards of sediment from Berths 3 and 4 (i.e. Wharf 3 and 4 dredge area) only may be placed at the Alcatraz Island Dredged Material Disposal Site (SF-11). All sediment to be dredged from Berths 1 – 4 that is not placed at SF-11 shall be placed at the San Francisco Deep Ocean Disposal Site (SF-DODS). According to the DOP and pre-dredge survey, approximately 5.17 acres of the 5.2 permitted dredge area would be dredged during this episode. The Port of Redwood City is located in Redwood City, San Mateo County, California.

Please be advised that, due to elevated levels of PAHs in the z-layer in three locations of the wharf areas, the DMMO requests that the Port submit a sampling and analysis plan (SAP) and testing schedule for higher resolution grab sampling for residual sediment (z-layer) characterization of PAHs (RMP 25) in the vicinity of sample locations PRC-DU2-01-Z, PRC-DU2-03-Z, and PRC-DU2-04-Z. This SAP should be submitted to the DMMO agencies, for review, no later than November 15, 2015. Sampling shall be conducted within 15 days of completion of dredging and the Port shall submit the analytical results to the DMMO within 60 days of project completion. The DMMO agencies will review the results and determine whether bioaccumulation testing or other follow-up analyses may be necessary.

Your operation plan has been reviewed and approved. With this letter you are hereby authorized by the Corps of Engineers (Corps) to commence your maintenance dredging and subsequent disposal of dredged material at SF-11 and (SF-DODS) pursuant to Corps permit number 2015-00058S, Episode 1. All conditions of your permit remain valid. **Please, note that all post-dredge survey information (see Standard DMMO Condition 8d in your permit) is to be forwarded to Ms. Shelah Sweatt (at shelah.sweatt@usace.army.mil) as well as the Corps Project Manager.** We want to remind you of the following conditions that apply prior to and during dredging operations:

1. The permittee is responsible for obtaining a letter of water quality certification from the Regional Water Quality Control Board and authorization from the San Francisco Bay Conservation and Development Commission for this episode. The Corps' authorization is not valid until those two authorizations have been obtained. The permittee is not required to forward these authorizations to the Corps.
2. Submit weekly the disposal site verification and summary log (Enclosure 1). This can be faxed to the Dredged Material Management Office (DMMO) at (415) 503-6693 or e-mailed to dll-spn-dmno@usace.army.mil. An electronic copy may be downloaded from the web at <http://www.spn.usace.army.mil/Portals/68/docs/Dredging/guidance/document2010-09-07-132110.pdf>. This information is to be submitted to the DMMO on the Monday following the dredge activity.
3. Submit, on Monday of each week, the data disk from the electronic positioning data recorded from the previous week's work. This information should be addressed to DMMO at the above address.
4. **When using SF-11, the location of the disposal of the dredged material shall be in quadrants H, C, and I.** Rotate disposal between the quadrants at SF-11 and drop the load in the approximate center of each quadrant. A map of SF-11 quadrants and their coordinates is attached (Enclosure 2) for your reference.
5. All vessel tracking, record keeping, and reporting requirements as described in the "Generic Ocean Disposal Special Conditions for use of the San Francisco Deep Ocean Disposal Site (SFDODS)" (updated May 15, 2015; see Enclosed 3), shall be adhered to for **disposal of material at SF-DODS.**
6. You are limited to a total of approximately 150,000 cubic yards over the life of your permit. The proposed amount to be dredged for the initial episode is approximately 45,078 cubic yards. If it appears that you will exceed this amount, you must notify the Corps immediately at the above address and provide justification.
7. Overflow requirements:
 - a. During dredging operations, no overflow is allowed, with the exception of spills incidental to mechanical dredge operations.
 - b. During transportation from dredging site to disposal site, no material shall be permitted to overflow, leak, or spill from barge, bins or dump scows.

8. The permittee or dredge contractor shall inform this office when: 1) a dredge episode actually commences; 2) dredging is suspended (suspension is when the dredge contractor leaves the dredge site for more than 48 hours for reasons other than equipment maintenance); 3) dredging is restarted and; 4) dredging is complete. Each notification shall include the Corps permit number and dredge episode number (see Enclosure 4). The information can be sent in writing to the Corps of Engineers, Operations and Readiness Division (to the attention of Mark D'Avignon), at the above address; faxed to (415) 503-6693; via telephone message at (415) 503-6806; or by e-mail to mark.r.d'avignon@usace.army.mil.

9. Please note that there is an allowable timeframe to dredge to protect the habitat for threatened species and the species themselves per Section 7 of the Endangered Species Act of 1973, as amended (as stated in the June 6, 2001 letter from the Corps to the U.S. Fish and Wildlife Service with the U.S. Fish and Wildlife Service concurring on August 1, 2001). You proposed dredging only from June 1-November 30 to protect the habitat and species which is consistent with the above biological opinion. **Therefore, please be advised that you will have to complete your dredging or stop work by November 30, 2015.** If your work will exceed this timeframe, you must contact the Corps in order to initiate biological consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries.

If you have any questions regarding this matter, please contact me at (415) 503-6806 or e-mail at mark.r.d'avignon@usace.army.mil. If you wish to write, please address all correspondence to Mr. Mark D'Avignon, Operations and Readiness Division and **refer to the file number at the head of this letter and include the dredge episode number.**

Sincerely,



Robert J. Lawrence
Chief, Dredged Material Management Office
Operations and Readiness Division

Enclosures

Disposal Site Verification and Summary Log;
Alcatraz Island Dredged Material Disposal Site, SF-11;
Generic Ocean Disposal Special Conditions for use of the San Francisco Deep Ocean Disposal Site (SF-DODS)
Project Status.

Copies Furnished: (without enclosures)

US EPA, San Francisco, CA, (Brian Ross)

US FWS, Sacramento, CA (Ryan Olah)

NMFS, Santa Rosa, CA (Sara Azat)

SFBRWQCB, Oakland, CA (Beth Christian)

SFBCDC, San Francisco, CA (Brenda Goeden)

CA DFW, Santa Rosa, CA (Arn Aarreberg)



PROJECT: _____

DISPOSAL SITE: _____

CONTRACTOR: _____

PERMIT: _____ **EPISODE:** _____

EPISODE: _____

5/18/2015

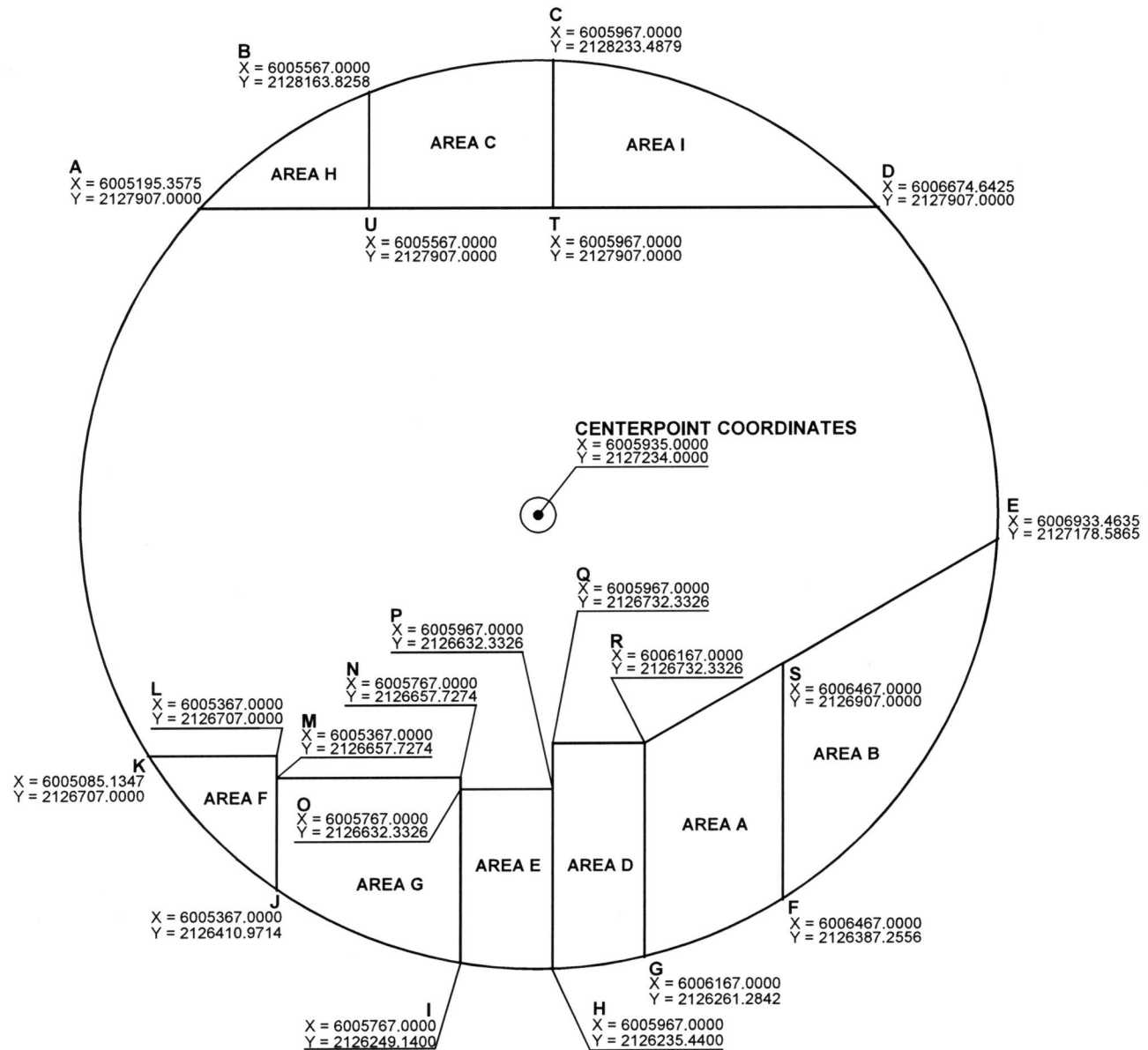
NORTH

ALCATRAZ ISLAND DISPOSAL SITE, SF-11 (NAD 83)

X = Easting
Y = Northing

WEST

EAST



28 June 2000

SOUTH



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

**EPA Standard Ocean Disposal Conditions for the
San Francisco Deep Ocean Disposal Site (SF-DODS)**

May 15, 2015 Update

The following mandatory conditions for disposal operations at SF-DODS are provided pursuant to EPA's authority under sections 102 and 103 of the Marine Protection, Research, and Sanctuaries Act (MPRSA), and the ocean dumping regulations at 40 CFR Parts 220-228. For enhanced clarity and understanding, they enhance, combine, and re-number many of the special conditions originally published in EPA's 1999 rule [64 FR 141 pages 39927-39934, and 40 CFR 228.15 (l)(3)].

Definitions:

1. **"Permit"** and **"permittee"** as used here mean USACE ocean dumping permits issued to others under Section 103 of the MPRSA, and to USACE itself and its contracts or other authorizations for USACE dredging projects (see MPRSA section 103(e) and 40 CFR Part 220.2).
2. **"Towing vessel"** is any self-propelled tug or other marine vessel used to transport (tow or push) the "disposal vessel" (see #3 following) for any portion of the transit to G-DODS.
3. **"Disposal vessel"** is any barge, scow, or self-propelled vessel (such as a hopper dredge) that carries dredged material during transit and from which the dredged material is discharged, typically by opening doors in the bottom of the hull or by splitting the hull.
4. **"Transit"** or **"transport"** to the disposal site begins as soon as dredged material loading into the disposal vessel is completed and a towing vessel begins moving the disposal vessel to the disposal site.
5. **"Surface Disposal Zone" or "SDZ"** is the 600 m radius circle at the center of the overall disposal site (latitude 37°39'N and longitude 123°29'W; NAD 83), within which the disposal vessel must discharge all of the dredged material.

Standard Conditions for use of the San Francisco Deep Ocean Disposal Site (SF-DODS):

1. ***Prohibition on Leaking or Spilling During Transport:*** Dredged material shall not be leaked or spilled from disposal vessels during transit to the SF-DODS. Transportation of dredged material to the SF-DODS shall only be allowed when weather and sea state conditions will not interfere with safe transportation and will not create risk of spillage, leak or other loss of dredged material during transit. Disposal vessels must not be loaded beyond a level at which dredged material would be expected to be spilled in transit under anticipated sea state conditions, and in no case may disposal vessels be filled to more than 80 percent of the vessel's maximum bin or hopper volume. No disposal vessel trips shall be initiated when the National Weather Service has issued a gale warning for local waters during the time period necessary to complete dumping operations, or when wave heights are 16 feet or greater.

2. ***Prohibition on Trash and Debris; use of Grizzly:*** Only dredged material determined in advance by EPA and USACE to be suitable for ocean disposal may be discharged at SF-DODS. Uncharacterized dredged material, vessels, trash, and other debris are prohibited from being discharged at the site. In order to exclude large trash and debris (including rocks) from being disposed at the site, before transport to SF-DODS all dredged material must be placed into scows through a steel mesh or chain “grizzly” with openings of no more than 12 inches by 12 inches. Material retained on the grizzly must be removed and disposed of separately. EPA and USACE may on a case-by-case basis waive the requirement to use a grizzly if they determine that trash and debris is unlikely to be present in the area to be dredged.
3. ***Independent Inspector, and Scow Certification Checklist:*** Before any disposal vessel departs for the SF-DODS, an independent quality control inspector (“*independent*” means not a direct employee of the permittee or dredging contractor) must certify in writing that the vessel is not over-loaded, and otherwise meets the conditions and requirements of a Scow Certification Checklist that contains all of the substantive elements found in the example contained in the most current SMMP Implementation Manual. EPA and USACE must approve the proposed Scow Certification Checklist prior to the commencement of ocean disposal operations. No ocean disposal trip may be initiated until both the towing vessel captain and the independent inspector have signed all relevant entries on the Scow Certification Checklist. The inspector shall provide a summary of any discrepancies or inaccuracies on the Checklist in the permittee’s report to EPA and USACE for the relevant month (see condition 10, below).
4. ***Farallon Islands Exclusion Zone:*** Disposal vessels in transit to and from the SF-DODS must remain at least three nautical miles from the Farallon Islands whenever possible. Closer approaches should occur only where the designated vessel traffic lane encroaches within 3 miles of the islands. In no case should disposal vessels leave the designated vessel traffic lane while within 3 miles of the islands, or transit north of a line extending westward from the termination of the designated vessel traffic lane while within 3 miles of the islands.
5. ***Surface Disposal Zone (SDZ):*** When dredged material is discharged within the SF-DODS, no portion of the vessel from which the materials are released (e.g. hopper dredge or towed barge) may be further than 1,960 feet (600 meters) from the center of the disposal site at latitude 37°39’N; longitude 123°29’W. No more than one disposal vessel may be present within the SF-DODS SDZ at any time.
6. ***Disposal Vessel Instrumentation and Tracking:*** The primary tracking system for recording ocean disposal operations shall be disposal vessel- (e.g., scow- or hopper dredge-) based. Each disposal vessel shall have a primary navigation/tracking system functioning for each disposal trip, calibrated for accuracy at a minimum at the beginning of each ocean disposal project, that automatically and continually indicates and records the following information throughout transportation to, disposal at, and return from SF-DODS:
 - a. position of the disposal vessel, to a minimum accuracy of 3 m (10 ft);
 - b. speed and heading of the disposal vessel;
 - c. fore and aft draft of the disposal vessel (sensors as near vessel centerline as possible);
 - d. fore and aft bin height (top of dredged material load in the bin or hopper) (sensors as near vessel centerline as possible);
 - e. time and location of each disposal event (e.g., the discharge phase).

This system must record these data at a maximum 5-minute interval while outside the SF-DODS disposal site boundary, and at a maximum 15-second interval while inside the SF-DODS disposal site boundary and the SDZ. The primary system must also include a real-time display, located in the wheelhouse or otherwise visible to the helmsman, showing the position of the disposal vessel relative to the boundaries of the Hawaii ODMDS and its SDZ, superimposed on the appropriate NOS chart so that the operator can confirm proper position of the disposal vessel within the SDZ before discharging the dredged material.

7. ***Posting Disposal Vessel Tracking Data on the Internet:*** Within 24 hours of the completion of each disposal trip, data recorded from the primary disposal tracking system must be posted by a third party contractor to a World Wide Web (Internet) site accessible by EPA Region 9, the San Francisco District USACE, and NOAA's Gulf of the Farallones National Marine Sanctuary. The Web site must be searchable by disposal trip number and date, and at a minimum for each disposal trip it must provide a visual display of: the disposal vessel transit route to SF-DODS; the beginning and ending locations of the disposal event; and the disposal vessel draft and load level in the bin throughout the transit. The requirement for posting this information on the Web is independent from the hard-copy reporting requirements listed in Special Conditions 10 and 12, below.
8. ***E-Mail Alerts:*** The third-party system must also generate and distribute "e-mail alerts" regarding any degree of apparent dumping outside the Surface Disposal Zone of SF-DODS ("mis-dumping"), and regarding any apparent substantial leakage/spillage or other loss of material en route to SF-DODS. Substantial leakage/spillage or other loss shall be defined as an apparent loss of draft of one foot or more between the time that the disposal vessel begins the trip to SF-DODS and the time of actual disposal. E-mail alerts for any disposal trip must be sent within 24 hours of the end of that trip to EPA Region 9, the San Francisco District USACE, the relevant National Marine Sanctuary if the event triggering the alert occurred in whole or in part within a Sanctuary boundary, and to other addressees as may be indicated by EPA or USACE on a project-specific basis.
9. ***Back-up Navigation System:*** A functioning back-up navigation system, meeting the minimum accuracy requirement listed above, must also be in place on the towing vessel (tug, if any). If the primary (disposal vessel's) navigation tracking system fails during transit, the disposal trip may continue only so long as the back-up (towing vessel's) navigation and tracking system remains operational, by placing the towing vessel in such a location that, given the compass heading and tow cable length to the scow ("lay back"), the estimated scow position would be within the Surface Disposal Zone [i.e., within 1,960 feet (600 meters) of the center of the disposal site]. In such cases the towing vessel's position, and the tow cable length and compass heading to the disposal vessel at the time of discharge, must be recorded and reported. Further disposal operations using a disposal vessel whose navigation tracking system fails must cease until the primary disposal tracking system's capabilities are restored.
10. ***Record-Keeping, and Monthly Reporting:*** In addition to the requirement in Special Condition 7, above, for posting data on the Web, the permittee shall maintain daily records (including using the approved Scow Certification Checklist) of: the amount of material dredged and loaded into barges for disposal; the location from which the material in each barge was dredged; the weather report for and sea-state conditions anticipated during the transit period; the time that each disposal vessel departs for, arrives at and returns from the SF-DODS; the

exact location and time of each disposal; and the volume of material disposed at the SF-DODS during each disposal trip. The permittee shall also maintain, for each ocean disposal trip, both electronic data and printouts from the GPS-based primary disposal tracking system (or the backup navigation tracking system when appropriate) showing transit routes, disposal vessel draft readings, disposal coordinates, and the time and position of the disposal vessel when dumping was commenced and completed. These daily records shall be compiled at a minimum for each month during which ocean disposal operations occur, and provided in reports, certified accurate by the independent quality control inspector, to both EPA and USACE. For each ocean disposal trip, these reports shall include the electronic tracking and disposal vessel draft data on CD-ROM (or other media approved by EPA and USACE), as well as hard copy reproductions of the Scow Certification Checklists and printouts listed above. The monthly reports shall include a cover letter describing any problems complying with the Ocean Disposal Special Conditions, the cause(s) of the problems, any steps taken to rectify the problems, and whether the problems occurred on subsequent disposal trips.

11. **24-Hour Notification Requirement for Potential Leaks or Mis-Dumps:** The permittee shall report any anticipated, potential, or actual variances from compliance with these Ocean Disposal Special Conditions, and any additional project-specific Special Conditions, to the District Engineer and the Regional Administrator within 24 hours of discovering such a situation. If any of these compliance problems occur within the boundaries of a National Marine Sanctuary, the permittee must also report any such situation to the relevant Sanctuary office within 24 hours. A message from an operational "e-mail alert" system, as described in Special Condition 8 above, will be considered as fulfilling this 24-hour notification requirement. In addition, the permittee shall prepare and submit a detailed report of any such compliance problems on a weekly basis by noon Monday, to the District Engineer and the Regional Administrator. These reports shall describe the cause(s) of the problems, any steps taken to rectify the problems, and whether the problems occurred on subsequent disposal trips.
12. **Project Completion Report:** Within 60 days following the completion of ocean disposal operations, the permittee shall submit to the District Engineer and Regional Administrator a completion letter summarizing the total number of disposal trips and the overall volume (bin as well as *in-situ*) of material disposed at SF-DODS for the project, and whether any of this dredged material was excavated from outside the areas authorized for ocean disposal or was dredged deeper than authorized by the permit.

- End -

PROJECT STATUS

Please use the forms below to report the dates when you start and finish the work authorized by the enclosed permit. Also if you suspend work for an extended period of time, use the forms below to report the dates you suspended and resumed work. If you find that you cannot complete the work within the time granted by the permit, please apply for a time extension at least one month before your permit expires. If you materially change the plan or scope of the work, it will be necessary for you to submit new drawings and a request for a modification of your permit.

(cut as needed) -----

Date: _____

NOTICE OF COMPLETION OF WORK under Department of the Army Permit No. 2015-00058S, Episode 1

TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 1455 Market Street, 16th Floor, San Francisco, CA 94103-1398

In compliance with the conditions of Permit No. 2015-00058S, this is to notify you that work was completed on _____.

Permittee: Port of Redwood City

Address: 675 Seaport Drive, Redwood City, California 94063

(cut as needed) -----

Date: _____

NOTICE OF RESUMPTION OF WORK under Department of the Army Permit No. 2015-00058S, Episode 1

TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 1455 Market Street, 16th Floor, San Francisco, CA 94103-1398

In compliance with the conditions of Permit No. 2015-00058S, this is to notify you that work was resumed on _____.

Permittee: Port of Redwood City

Address: 675 Seaport Drive, Redwood City, California 94063

(cut as needed) -----

Date: _____

NOTICE OF SUSPENSION OF WORK under Department of the Army Permit No. 2015-00058S, Episode 1

TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 1455 Market Street, 16th Floor, San Francisco, CA 94103-1398

In compliance with the conditions of Permit No. 2015-00058S, this is to notify you that work was suspended on _____.

Permittee: Port of Redwood City

Address: 675 Seaport Drive, Redwood City, California 94063

(cut as needed) -----

Date: _____

NOTICE OF COMMENCEMENT OF WORK under Department of the Army Permit No. 2015-00058S, Episode 1

TO: District Engineer, US Army Corps of Engineers, Operations and Readiness Division, 1455 Market Street, 16th Floor, San Francisco, CA 94103-1398

In compliance with the conditions of Permit No. 2015-00058S, this is to notify you that work commenced on _____.

Permittee: Port of Redwood City

Address: 675 Seaport Drive, Redwood City, California 94063

